



7" HMI for harsh industrial environments.

- ▶ Robust and compact solution for human-machine interaction
- ▶ Powerful and energy-saving DHCOM module as computing unit
- ▶ Use in industrial and commercial applications thanks to EN6100-6-2 and EN6100-6-3
- ▶ No heat sink required thanks to 5-cent cooling solution
- ▶ Thanks to the family concept, the module can be replaced by a higher-performance module at any time

Technical Data

CPU details

CPU name	NXP i.MX6 Solo default, other processors with DHCOM standard available on request
CPU type	ARM Cortex-A9
CPU clock	up to 800 MHz

Memory

DDR3 RAM	1024 MB
eMMC flash	4 GB
E2Prom	128 Byte
Micro SD socket available	✓
External RTC available	✓

Connectivity

USB host	1x High-speed
Ethernet	10 / 100 Mbit/s
Serial interfaces	1x RS232 (Rx, Tx, Rts, Cts) 1x RS485 (available instead of RS232)
Input	1x
Output	1x
CAN	1x 1 Mbit/s

Multimedia

2D 3D GPU	2D: Vivante GC320 for i.MX6 Solo 3D: Vivante GC880 with 1 shader for i.MX6 Solo
2D 3D Acceleration	Yes Yes
Display diagonal	7 inch
Resolution	800 x 480 px
Color depth	16.7M
MTBF	30.000 hrs
Touch	4-wire resistive

Operating system

BSP	Linux (Debian, Yocto)
Debug interface	JTAG interface on module
Setup and config	Get our free web browser to configure the DHMI or to display any website.

Physical

Dimensions	187 x 100 x 34 mm
Weight	500 g
Power supply	24.0 VDC
Typ. power consumption	6.0 W
Operating temperature	0 to +50 °C
Storage temperature	0 to +70 °C
Moisture	+10 % to +80 % (non-condensing)
Certifications	EN 61000-6-2 EN 61000-6-3

Configurations

Item Number	Model (other configurations on request)	Product description
FD00031	DHMI-070R-OF-IMX6S-R051-F0409-E-CAN-IO-RS232-C-01P1	DHMI, 7.0", resistive touch, open frame, i.MX6 Solo, 512 MByte, 4096 MByte eMMC, ethernet, CAN, additional IOs, RS232, 0 to +50°C, revision 01, picoITX1

Item Number	Model (other configurations on request)	Product description
FD00058	DHMI-070R-FB-STM32MP157C-R102-F0819-E-CAN-IO-RS232-C-01P1	DHMI, 7.0", resistive touch, framed black, STM32MP157C, 1024 MByte, 8192 MByte eMMC, ethernet, CAN, additional IOs, RS232, 0 to +50 °C, revision 01, picoITX1

* Other configurations on request